Docket No.:	: 264464USOPCT	•			
	IN THE UNITED STATES PATENT AND	TRADEMARK OFFICE			
Satoru TAK	AHASHI, et 2).	UP: 1616			
SERIAL NO	D: 10/521,755 EXA	MINER: brown, c.			
FILED:	January 19, 2005				
FOR:	HERBICIDAL COMPOSITION				
	DECLARATION UNDER 37 C.F.	R. § 1.132			
COMMISSIO ALEXANDR	ONER FOR PATENTS RIA, VIRGINIA 22313	•			
Sir:	•				
1.	Now comes Makoto Fujinami who deposes and states that:				
2.	I am a graduate of Kyoto University	and received my			
Master's	degree in the year 1997				
3.	I have been employed by Kumiai Chem Industry Co.	_Ltd., since 1997			
and I have bee	resear en conducting research in the field of to her	ch and development works relative oicide compositions and other for			
_12 years.	<u>relate</u>	d products of the company			
4.	I am familiar with the prosecution history of	the present application (i.e., U.S.			
10/521,755) an	nd/or the prosecution history of the present ap	plication has been explained to			
me by counsel.	· · · · · · · · · · · · · · · · · · ·				
<b>5.</b>	I have read and understood the Office Action of January 26, 2009 and/or the				
January 26, 200	09 Office Action has been explained to me by	counsel			

7,238,689) publications cited by the Examiner in the January 26, 2009 Office Action or

I have read and understood the Ziemer (U.S. 2003/013010) and Nakatani (U.S.

б.

foreign language equivalents thereof

7. In order to demonstrate the effects of one or more embodiments of the present invention, the following experiments were carried out by me or under my direct supervision and control.

## Test Example X-1

Tests for herbicidal effects were conducted in the same manner as described in "Application Example 1" on pages 143 to 146 of the present specification provided that the weeds were changed to green foxtail (Satria viridis) and velvetleaf (Abutilon theophrasti Medic).

The herbioidal effects are indicted by percentage (from 0 to 100%) and the results are indicated in Table X-1 (see the Appendix).

Further, theoretical herbicidal effects obtainable by blending herbicides are calculated from the following formula [1] (Colby's formula) and the calculated theoretical values are indicated by the Compounds titled "(Exp.)" in Table X-1.

Formula [1]: T = P1 + [P2(100 - P1)/100]

P1: Herbicidal effect obtained when a predetermined amount of active ingredient of a herbicidal component 1 is applied to weeds.

P2: Herbicidal effect obtained when a predetermined amount of active ingredient (y) of the herbicidal component 2 is applied to weeds grown under the same conditions.

T: Herbicidal effect obtained when a predetermined amount of active ingredient (x) of the herbicidal component 1 and a predetermined amount of active ingredient (y) of the herbicidal component 2 are applied to weeds grown under the same conditions.

Colby's formula: Please see "Calculation synergistic and antagonistic response of Herbicide combinations". Weeds 15, pages 20-22; 1967.

## Test Example X-2

Tests for herbicidal effects were conducted in the same manner as described in Application Example 1 of the present specification, and the herbicidal effects are indicated by percentage (from 0 to 100%) as made in Test Example X-1, and the results are indicated in Table X-2.

The weed used for the test was common chickweed (Stellaria media Villris).

"(Exp.)" in Table X-2 is a theoretical value of herbicidal effect obtainable by blending the herbicides as previously mentioned.

## Test Example X-3

Tests for herbicidal effects were conducted in the same manner as described in Application Example 1 of the present specification, and the herbicidal effects are indicated by percentage (from 0 to 100%) as made in Test Example X-1, and the results are indicated in Table X-3.

Weeds tested were crabgrass (Digitaria ciliaris) and common lambsquarters (Chenopodium album).

"(Exp.)" in Table X-3 is a theoretical value of herbicidal effect obtainable by blending the herbicides as previously mentioned.

From the results indicated in Tables X-1, X-2 and X-3, it is clearly understood that the herbicidal effects of the herbicidal composition of the present invention are higher than the theoretical values of herbicidal effects of respective herbicides.

8. It is my opinion based on the data of Tables X-1, X-2 and X-3 that the herbicidal composition of the present claims (i.e., one that contains the ingredients identified as components i) and ii) recited the present claims) provides an herbicidal effect that is greater than the theoretical cumulative effect. Such a result would not have been expected

from theory which, as explained above, provides a different lower cumulative herbicidal result.

- 9. The undersigned petitioner declares further that all statements made herein of his own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of this application or any patent issuing thereon.
  - 10. Further deponent saith not.

Customer Number

22850

Tel. (703) 413-3000 Fax. (703) 413-2220 (OSMMN 05/06)

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## APPENDIX

Table X-1

Compound	Amount of active	Herbicio	Herbicidal effect (%)	
_	ingredient (g a.i./ha)	green foxtail	velvetleaf	
		(Satria viridis)	(Abutilon	
			theophrasti Medic)	
3-0188	16	87	27	
isoxaflutole	12.5	67	99	
(Exp.)	16 + 12.5	96	99	
3-0188				
+isoxaflutole				
3-0188	16 + 12.5	99	100	
+ isoxaflutole				
3-0188	16	87	27	
flumetsulam	10	20	18	
(Exp.)	16 + 10	90	40	
3-0188			-	
+ flumetsulam				
3-0188	16 + 10	95	68	
+ flumetsulam				
3-0188	16	87	27	
mesotrione	25	0	80	
(Exp.)	16 + 25	87	85	
3-0188				
+ mesotrione				
3-0188	16 + 25	92	100	
+ mesotrione				
3-0188	32	88	-	
glyphosate	265	0	-	
(Exp.)	32 + 265	88	-	
3-0188				
+ glyphosate				
3-0188	32 + 265	97	-	
+ glyphosate				

Table X-2

Compound	Amount of active	Herbicidal effect (%)
_	ingredient (g	common chickweed
	a.i./ha)	(Stellaria media
		Vilyris)
3-0188	18.8	50
pendimethalin	800	80
(Exp.)	18.8 + 300	90
3-0188		
+pendimethalin		
3-0188	18.8 + 300	98
+ pendimethalin		
3-0188	18.8	50
thifensulfuron-methyl	15	5
(Exp.)	18.8 + 15	53
3-0188		
+ thifensulfuron-methyl		
3-0188	18.8 + 15	77
+ thifensulfuron-methyl		
3-0188	18.8	50
diflufenican	37.5	40
(Exp.)	18.8 + 75	70
3-0188		
+ diflufenican		
3-0188	18.8 + 75	80
+ diflufenican		

Table X-3

Compound	Amount of active	Herbicidal effect (%)	
	ingredient (g a.i./ha)	crabgrass (Digitaria	common
		ciliaris)	lambsquarters
			(Chenopodium
			album)
3-0188	75	66	80
flumioxazin	25	30	70
(Exp.)	75 + 25	76	94
3-0188			
+flumioxazin	_		
3-0188	75 + 25	100	100
+ flumioxazin	· .		
3-0188	32	0	89
linuron	50	93	6
(Exp.)	32 + 50	93	42
3-0188			
+ linuron			
3-0188	32 + 50	98	98
+ linuron			
3-0188	32	98	89
prometryn	75	0	50
(Exp.)	32 + 75	93	95
3-0188			
+ prometryn			
3-0188	32 + 75	100	100
+ prometryn			